



## TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

<b>Title V Permit Number</b>	<b>015 - 0256 - TV</b>
<b>Client/ Sequence /Town/Premises Numbers</b>	<b>6859 / 001 / 015 / 862</b>
<b>Date Issued</b>	<b>4/9/01</b>
<b>Expiration Date</b>	<b>4/9/06</b>

**Corporation:**

*Bridgeport Energy LLC*

**Premises Location:**

*10 Atlantic Street, Bridgeport Connecticut 06604*

**Name of Responsible Official and Title:**

*David A. Gillespie, General Manager*

All the following attached pages, 2 through 29, are hereby incorporated by reference into this Title V Operating Permit.

ARTHUR J. ROCQUE JR.,  
Arthur J. Rocque, Jr.  
Commissioner

4/9/01  
Date

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## **Title V Operating Permit**

**All conditions in Sections III, IV, VI and VII of this permit are enforceable by both the Administrator and the Commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, VI and VII of this permit in accordance with the Clean Air Act (CAA), as amended.**

## LIST OF ACRONYMS

ACRONYM	DESCRIPTION
AOS	Alternate Operating Scenario
ASC	Actual Stack Concentration
BAM	Bureau of Air Management
BACT	Best Available Control Technology
CAAA	Clean Air Act Amendments of 1990
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CP/OP	Construction Permit/Operating Permit
DEP	Department of Environmental Protection
EMU	Emission Unit
EPA	Environmental Protection Agency
ERC	Emission Reduction Credit
FLER	Full Load Emission Rate
GEMU	Grouped Emission Unit
HAP	Hazardous Air Pollutant
Lb	Pounds
MASC	Maximum Allowable Stack Concentration
MACT	Maximum Achievable Control Technology
MMBtu	Millions of British Thermal Units
MMCF	Millions of Cubic Feet
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
PM-10	Particulate Matter less than 10 microns
ppmdv	parts per million dry volumetric
RACT	Reasonably Available Control Technology
RMP	Risk Management Plan
RCSA	Regulations of Connecticut State Agencies
SOS	Standard Operating Scenario
SO <sub>x</sub>	Sulfur Dioxides
TPY	Tons per 12 consecutive months
TSP	Total Suspended Particulates
VOC	Volatile Organic Compound
YR	Year

## **Section I: Premises Information/Description**

### **A. PREMISES INFORMATION**

Nature of Business: Electric Generating Plant

Primary SIC: 4911

Other SIC: None

Facility Mailing Address: 10 Atlantic Street, Bridgeport, CT 06604

Telephone Number: (203) 332-8694

### **B. PREMISES DESCRIPTION**

Bridgeport Energy is a combined cycle electric generating plant providing power to Connecticut and New England. This facility consists of two Siemens V84.3A combustion turbine generators with heat recovery steam generators, and a steam turbine generator with a combined nominal rated capacity of 520 MW. The facility commenced combined cycle commercial operation in June 1999.

Bridgeport Energy currently holds NSR permits for both combustion turbines and an emergency diesel fire pump engine. This facility is subject to the requirements of both the NOx budget program (RACT Phase II) and the Acid Rain program. The application is requesting two operating scenarios. These two scenarios will allow the use of both natural gas and No.2 fuel oil.

## Section II: Emissions Units Information

### A. EMISSIONS UNITS IDENTIFICATION: STANDARD OPERATING SCENARIO (SOS) AND ALTERNATIVE OPERATING SCENARIOS (AOS)

Emission units are set forth in Table II.A.1.

TABLE II.A.1: EMISSIONS UNIT DESCRIPTION			
Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, or Registration Number*
EMU1	Siemens V84.3A combustion turbine w/HRSG #1	Selective Catalytic Reduction (and water injection for oil firing)	015-0190
EMU2	Siemens V84.3A combustion turbine w/HRSG #2	Selective Catalytic Reduction (and water injection for oil firing)	015-0191
EMU3	303 Horsepower emergency diesel fire pump	None	015-0227-GPEE
GEMU1	EMU1 and EMU2	Not applicable	none

(\*) It is intended to incorporate by reference these NSR Permits, Orders, or Registrations into this Title V Operating Permit.

## Section II: Emissions Units Information

The permittee shall be allowed to operate under the following scenarios without notifying the Commissioner, provided that such operations are explicitly provided for and described in the table below. The permittee shall record contemporaneously, the operating scenario under which each emissions unit is operating in the facility's control and data acquisition system to be kept at the subject premises.

TABLE II.A.2: EMISSIONS UNIT IDENTIFICATION, SOS AND AOS		
Identification of Operating Scenarios	Emissions Units Associated with the Scenarios	Description of Scenarios
SOS1	GEMU1 and EMU3	GEMU1 shall fire natural gas, EMU3 shall fire diesel oil, and all emissions units associated with SOS1 shall be operated in accordance with applicable permit terms and conditions, and in accordance with best management practices.
AOS1	GEMU1 and EMU3	GEMU1 shall fire distillate oil, EMU3 shall fire diesel oil, and all emissions units associated with AOS1 shall be operated in accordance with applicable permit terms and conditions, and in accordance with best management practices.

**B. [Reserved, pending applicable regulatory revisions]**

### Section III: Applicable Requirements and Compliance Demonstration

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this permit.

#### A. GROUPED EMISSIONS UNIT 1

**Note that all annual tonnage limits are for both emissions units (EMU1 and EMU2) in total. Hourly, ppm, and Heat input based limits are on an individual per turbine basis. Also note, compliance with permit limits for NO<sub>x</sub> and CO shall be based on ppm<sub>dv</sub> @15% O<sub>2</sub> and for VOC shall be based on ppm<sub>wv</sub> @15% O<sub>2</sub>.**

TABLE III.A: GROUPED EMISSIONS UNITS 1 (GEMU1)				
*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1 and AOS1	Annual Fuel Usage	<p>A total maximum heat input of 33,109,900 MMBtu per consecutive twelve-month period. The following equation establishes the corresponding maximum fuel consumption for EMU1 and EMU2:</p> <p>Maximum natural gas consumption(MMCF)per consecutive twelve months = <math>[33,109.9 - 0.000137 * \text{the number of gallons of no.2 fuel oil consumed during the same consecutive twelve months (Shall not exceed 20,552,883 gallons)}]</math></p>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily and hourly records of natural gas consumption and fuel oil combustion when firing oil.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII</p>



### Section III: Applicable Requirements and Compliance Demonstration

**TABLE III.A: GROUPED EMISSIONS UNITS 1 (GEMU1)**

*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
<b>SOS1</b>	PM-10	<ol style="list-style-type: none"> <li>1. Less than or equal to 2.00 lb./hour,</li> <li>2. Less than or equal to 0.0010 lb./MMBtu, and</li> <li>3. Less than or equal to 18.24 tons per year</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily and hourly records of fuel consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u>  <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol> </p>
<b>AOS1</b>	PM-10	<ol style="list-style-type: none"> <li>1. Less than or equal to 3.00 lb./hour,</li> <li>2. Less than or equal to 0.0015 lb./MMBtu, and</li> <li>3. Less than or equal to 18.24 tons per year</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily and hourly records of fuel consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u>  <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol> </p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.A: GROUPED EMISSIONS UNITS 1 (GEMU1)				
*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	NOx	<ol style="list-style-type: none"> <li>1. Less than or equal to 41.30 lb./hour,</li> <li>2. Less than or equal to 6 ppmvd @15% O<sub>2</sub></li> <li>3. Less than or equal to 0.022 lb./MMBtu, and</li> <li>4. Less than or equal to 532.7 tons per year</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM) to measure NOx emissions on a lbs/hour and ppmvd@15% O<sub>2</sub>.</li> <li>2. The permittee shall maintain daily and hourly records of fuel consumption.</li> </ol> <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol>
AOS1	NOx	<ol style="list-style-type: none"> <li>1. Less than or equal to 323.0 lb./hour,</li> <li>2. Less than or equal to 42 ppmvd @15% O<sub>2</sub>,</li> <li>3. Less than or equal to 0.1652 lb./MMBtu, and</li> <li>4. Less than or equal to 532.7 tons per year</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM) to measure NOx emissions on a lbs/hour and ppmvd@15% O<sub>2</sub>.</li> <li>2. The permittee shall maintain daily and hourly records of fuel consumption.</li> </ol> <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.A: GROUPED EMISSIONS UNITS 1 (GEMU1)				
*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SOx	<ol style="list-style-type: none"> <li>1. Less than or equal to 1.13 lb./hour,</li> <li>2. Less than or equal to 0.0006 lb./MMBtu, and</li> <li>3. Less than or equal to 81.1 tons per year</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily and hourly records of fuel consumption.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall calculate SO2 emissions on a lbs/hour and lbs/MMBtu basis.</li> <li>2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> </ol> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol>
AOS1	SOx	<ol style="list-style-type: none"> <li>1. Less than or equal to 101.0 lb./hour,</li> <li>2. Less than or equal to 0.0517 lb./MMBtu,</li> <li>3. Less than or equal to 81.1 tons per year, and</li> <li>4. Less than or equal to 0.05% sulfur by weight (dry basis) in distillate fuel</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements:</u> Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods D129 and D1552.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis).</li> <li>2. The permittee shall calculate SO2 emissions on a lbs/hour and lbs/MMBtu basis.</li> <li>3. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> </ol> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.A: GROUPED EMISSIONS UNITS 1 (GEMU1)				
*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	VOC	<ol style="list-style-type: none"> <li>1. Less than or equal to 7.00 lb./hour,</li> <li>2. Less than or equal to 3 ppmvw @15% O<sub>2</sub></li> <li>3. Less than or equal to 0.0037 lb./MMBtu, and</li> <li>4. Less than or equal to 62.1 tons per year</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee has demonstrated compliance with lbs/hour and ppm<sub>dv</sub>@15%O<sub>2</sub> limits through stack testing .</li> <li>2. The permittee shall maintain daily and hourly records of fuel consumption.</li> </ol> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol>
AOS1	VOC	<ol style="list-style-type: none"> <li>1. Less than or equal to 8.00 lb./hour,</li> <li>2. Less than or equal to 3 ppmvw @15% O<sub>2</sub></li> <li>3. Less than or equal to 0.0041 lb./MMBtu, and,</li> <li>4. Less than or equal to 62.1 tons per year</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall demonstrate compliance with lbs/hour and ppm<sub>dv</sub>@15%O<sub>2</sub> limits through stack testing .</li> <li>2. The permittee shall maintain daily and hourly records of fuel consumption.</li> </ol> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.A: GROUPED EMISSIONS UNITS 1 (GEMU1)				
*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	CO	<ol style="list-style-type: none"> <li>1. Less than or equal to 42.0 lb./hour,</li> <li>2. Less than or equal to 10 ppmvd @15% O<sub>2</sub></li> <li>3. Less than or equal to 0.0223 lb./MMBtu, and</li> <li>4. Less than or equal to 339.4 tons per year</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM) to measure CO emissions on a lbs/hour and ppmvd@15% O<sub>2</sub>.</li> <li>2. The permittee shall maintain daily and hourly records of fuel consumption.</li> </ol> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol>
AOS1	CO	<ol style="list-style-type: none"> <li>1. Less than or equal to 47.0 lb./hour,</li> <li>2. Less than or equal to 10 ppmvd @15% O<sub>2</sub></li> <li>3. Less than or equal to 0.024 lb./MMBtu, and</li> <li>4. Less than or equal to 339.4 tons per year</li> </ol>	Permits # 015-0190 and 015-0191	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM) to measure CO emissions on a lbs/hour and ppmvd@15% O<sub>2</sub>.</li> <li>2. The permittee shall maintain daily and hourly records of fuel consumption.</li> </ol> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</li> <li>2. See Section VII</li> </ol>

### Section III: Applicable Requirements and Compliance Demonstration

CEM shall be done by Bridgeport Energy, LLC as indicated below and in permits 015-0190 and 015-0191

<u>Pollutant</u>	<u>Averaging time</u>	<u>When Required</u>
Fuel Flow	Continuous	All Operations
Water injection flow	Continuous	Only when system is in use
Opacity	Six minute block	Only when combusting No.2 oil
NO <sub>x</sub>	24 hour rolling	All Operations
CO	1 hour block	All Operations
O <sub>2</sub>	1 hour block	All Operations

### Section III: Applicable Requirements and Compliance Demonstration

#### B. APPLICABLE REQUIREMENTS FOR NO<sub>x</sub> AND SO<sub>2</sub>

Table III.B: APPLICABLE REQUIREMENTS FOR NO <sub>x</sub> AND SO <sub>2</sub> ALLOWANCE PROGRAMS				
*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1 and AOS1	NO <sub>x</sub> Budget	NO <sub>x</sub> allowance compliance	RCSA 22a-174-22a	<p><u>Monitoring and Testing Requirements</u> The permittee shall achieve compliance with monitoring and testing as described in RCSA 22a-174-22a(i).</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described in RCSA 22a-174-22a(j).</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall report as described in RCSA 22a-174-22a(k).</li> <li>2. See Section VII</li> </ol>
SOS1 and AOS1	SO <sub>2</sub>	SO <sub>2</sub> Allowances	015-002-TIV 40 CFR 73, 40CFR75	<p><u>Monitoring Record Keeping and Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall stay in compliance with the SO<sub>2</sub> allowance system of the Acid Rain Program defined in Title IV of the Clean Air Act Amendments of 1990.</li> <li>2. SO<sub>2</sub> allowances for these two turbines shall be obtained from a source listed in 40CFR73 which has federal SO<sub>2</sub> allocations.</li> <li>3. Continuous Emissions Monitors (CEMS) for NO<sub>x</sub> shall meet the requirements of 40CFR75 Acid Rain Monitoring Provisions.</li> </ol>

### Section III: Applicable Requirements and Compliance Demonstration

#### C. EMISSIONS UNIT EMU3

Note that this unit does not exceed 5 TPY of NO<sub>x</sub> or 3 TPY of PM-10 or SO<sub>x</sub> at 500 hours therefore, it has requested and received exemption from monthly and annual emission calculations for PM-10 SO<sub>x</sub> and NO<sub>x</sub>.

TABLE III.C: EMISSION UNIT 3 (EMU3) EMERGENCY DIESEL FIRE PUMP				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Condition Number
SOS-1 and AOS-1	NO <sub>x</sub> , CO	No more than five (5) tons per year	Section 5(a)(1) of General Permit to Construct and/or Operate a New or Existing Emergency Engine	<p><u>Monitoring and Testing Requirements</u> If the subject engine is supplied with fuel by more than one tank or if multiple sources are supplied fuel by one tank, a non-resettable fuel-metering device shall be used to continuously monitor the fuel consumed by any such engine. [Section 5(b) of General Permit]</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep the following records for a minimum of five (5) years commencing on the date such records were created. The permittee shall calculate monthly and annual actual emissions of NO<sub>x</sub> and CO emitted by the subject engine. Annual NO<sub>x</sub> and CO emissions shall be calculated each calendar month by adding the current calendar month's NO<sub>x</sub> and CO emissions to those of the previous eleven months. [Section 5(c) of General Permit]</p> <p><u>Reporting Requirements</u> The permittee shall provide, to the commissioner, any information pertinent to the authorized activity or to compliance with the general permit or with the permittee's approval of registration within thirty days of request. A permittee shall report any violation of the conditions of this permit, or of an approval of registration, to the commissioner immediately upon discovery thereof. [Section 5(d) of General Permit]</p>



### Section III: Applicable Requirements and Compliance Demonstration

TABLE IILC: EMISSION UNIT 3 (EMU3) EMERGENCY DIESEL FIRE PUMP, CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Condition Number
SOS-1 and AOS-1	PM10, SO <sub>x</sub>	<ol style="list-style-type: none"> <li>1. No more than three (3) tons per year ;</li> <li>2. Use only a Gaseous Fuel or a Liquid Fuel with API gravity greater than thirty;</li> <li>3. Fuel consumed by the subject engine shall have a maximum sulfur content of 0.05% by weight (dry basis).</li> </ol>	Section 5(a)(2), (4) & (5) of General Permit to Construct and/or Operate a New or Existing Emergency Engine	<p><u>Monitoring and Testing Requirements</u> The permittee shall monitor the actual hours of operation and fuel consumption by the subject engine.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep the following records for a minimum of five (5) years commencing on the date such records were created Annual PM10 and SO<sub>2</sub> emissions shall be calculated each calendar month by adding the current calendar month's PM10 and SO<sub>2</sub> emissions to those of the previous eleven months. The permittee shall maintain, with respect to each shipment of liquid fuel, other than liquid petroleum gas, to be used in this engine authorized hereunder, a shipping receipt and certification from the fuel supplier certifying the name of the fuel supplier, type of fuel delivered, API gravity of such fuel, the percentage of sulfur in such fuel, by weight, dry basis, and the method used by the fuel supplier to determine the sulfur content of such fuel. [Section 5(c) of General Permit]</p> <p><u>Reporting Requirements</u> The permittee shall provide, to the commissioner, any information pertinent to the authorized activity or to compliance with this permit or with the permittee's approval of registration within thirty days of request. A permittee shall report any violation of the conditions of the general permit, or of an approval of registration, to the commissioner immediately upon discovery thereof. [Section 5(d) of General Permit]</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE IILC: EMISSION UNIT 3 (EMU3) EMERGENCY DIESEL FIRE PUMP, CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Condition Number
SOS-1 and AOS-1	Operational Conditions	<ol style="list-style-type: none"> <li>1. No more than 500 hours per year;</li> <li>2. The permittee shall not conduct routine scheduled testing or maintenance of the subject engine during days when ambient ozone is forecasted by the commissioner to be moderate to unhealthful, unhealthful, or very unhealthful.</li> </ol>	Section 5(a)(3) & (7) of General Permit to Construct and/or Operate a New or Existing Emergency Engine	<p><u>Monitoring and Testing Requirements</u> If the subject engine is supplied with fuel by more than one tank or if multiple sources are supplied fuel by one tank, a non-resettable fuel-metering device shall be used to continuously monitor the fuel consumed by any such engine. [Section 5(b) of General Permit]</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep the following records for a minimum of five (5) years commencing on the date such records were created. The permittee shall calculate monthly and annual actual hours of operation and fuel consumption by the subject engine. Annual hours of operation and fuel consumption shall be calculated each calendar month by adding the current calendar month's hours of operation and fuel consumption to those of the previous eleven months. [Section 5(c) of General Permit]</p> <p><u>Reporting Requirements</u> The permittee shall provide, to the commissioner, any information pertinent to the authorized activity or to compliance with the general permit or with the permittee's approval of registration within thirty days of request. A permittee shall report any violation of the conditions of this permit, or of an approval of registration, to the commissioner immediately upon discovery thereof. [Section 5(d) of General Permit]</p>

### Section III: Applicable Requirements and Compliance Demonstration

#### D. PREMISES-WIDE GENERAL REQUIREMENTS

<b>Table IIID: PREMISES-WIDE GENERAL REQUIREMENTS</b>		
<b>Pollutants or Process Parameters</b>	<b>Applicable Regulatory References/Citations</b>	<b>Compliance Demonstration Requirements</b>
Annual Emission Statements	RCSA §22a-174-4	The permittee shall submit annual emission inventory statements requested by the Commissioner as specified in RCSA §22a-174-4(c) (1).
Emergency Episode Procedures	RCSA §22a-174-6	The permittee shall comply with the procedures for emergency episodes as specified in RCSA §22a-174-6.
Public Availability of Information	RCSA §22a-174-10	The public availability of information shall apply, as specified in RCSA 22a-174-10.
Prohibition against Concealment/circumvention	RCSA §22a-174-11	The permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA 22a-174-11.
Open Burning	CGS §22a-174-17	The permittee is prohibited from conducting open burning, except as may be allowed by CGS 22a-174-17.
Emission Fees	RCSA §22a-174-26	The permittee shall pay an emission fee in accordance with RCSA §22a-174-26(d).
Ammonia	Section 112(r) 40 CFR Part 68	The permittee is required to submit a complete risk management plan (RMP) to the EPA. The permittee submitted an RMP to the EPA on August 27 <sup>th</sup> , 1999, which was deemed complete and certified by the EPA.

#### **Section IV: Compliance Schedule**

**NOT APPLICABLE**

## Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

- A. This permit does not relieve the permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Environmental Protection or any federal, local or other state agency. Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.
- B. Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the permittee by the Commissioner.
- C. **Odors:** The permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor beyond the property boundary of the premises in accordance with the provisions of RCSA Section 22a-174-23. Failure to comply with this requirement may result in the assessment of civil penalties and/or the issuance of a State Order.
- D. **Noise:** The permittee shall operate in compliance with the Department of Environmental Protection's regulations for the control of noise (RCSA 22a-69-1 through 22a-69-7.4 inclusive).

Table V.A: NON-PERMITTED EMISSION UNITS			
Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
Hazardous Air Pollutants	Actual stack concentration less than Maximum Allowable Stack Concentration (MASC)	RCSA 22a-174-29, Table 29-1	<u>Monitoring and Testing Requirements</u> Verify emissions using AP-42 Fifth Edition, Section 1.3, Table 1.3-8.  <u>Record Keeping Requirements</u> Make and keep records of hazardous air pollutant calculations. Retain such records and supporting documentation for a minimum of 5 years, commencing on the date such records were created (22a-174-33(o)(2)).  <u>Reporting Requirements</u> Provide such records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. (RCSA 22a-174-4(c)(1)).

**Section VI: Permit Shield**

**NOT APPLICABLE**

## **Section VII: Title V Requirements**

The Administrator of the United States Environmental Protection Agency and the Commissioner of Environmental Protection have the authority to enforce the terms and conditions contained in these sections.

### **A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR**

The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of the Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 6th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the U. S. Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; US EPA, Region 1; Suite 1100 (SEA); JFK Federal Building, Boston, MA 02114-2023.

### **B. CERTIFICATIONS [RCSA 22a-174-33(b)]**

In accordance with Section 22a-174-33(b) of the RCSA, any report or other document required by this Title V permit and any other information submitted to the Commissioner or Administrator shall be signed by an individual described in Section 22a-174-33(b) of the RCSA, or by a duly authorized representative of such individual. Any individual signing any document pursuant to Section 22a-174-33(b) of the RCSA shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in Section 22a-3a-5(a)(2) of the RCSA:

"I have personally examined and am familiar with the information submitted in the documents and all attachments thereto and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in this document or its attachments may be punishable as a criminal offense in accordance with Connecticut General Statutes Section 22a-6, pursuant to Section 53a-157b of the Connecticut General Statutes."

### **C. AUTHORIZED REPRESENTATIVE [RCSA 22a-174-33(b)(3)]**

If an authorization pursuant to Section 22a-174-33(b)(2) of the RCSA is no longer effective because a different individual or position has assumed the applicable responsibility, a new authorization satisfying the requirements of Section 22a-174-33(b)(2) of the RCSA shall be submitted to the Commissioner prior to or together with the submission of any applications, reports, forms, compliance certifications, documents or other information which is signed by an individual or a duly authorized representative of such individual pursuant to Section 22a-174-33(b)(1) of the RCSA.

### **D. ADDITIONAL INFORMATION [RCSA 22a-174-33(j)(1)(X)]**

The permittee shall submit any additional information, at the Commissioner's request, within a reasonable time, including any information that the Commissioner may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with the terms and conditions of this permit and all applicable statutes and regulations.

In addition, within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the changed, corrected, or omitted information to the Commissioner.

## **Section VII: Title V Requirements**

### **E. MONITORING REPORTS [RCSA 22a-174-33(o)(1)]**

A permittee, required to perform monitoring pursuant to this permit, shall submit to the Commissioner written monitoring reports in accordance with this permit and on the schedule specified in this permit and if no schedule is specified, a written monitoring report shall be submitted every six months. Such monitoring reports, in addition to other requirements specified herein, shall provide the following:

1. the date and description of each deviation from the terms and conditions of the permit caused by upset or control equipment deficiencies, each deviation from a permit requirement, and each violation of a requirement of this permit that has been monitored by the monitoring systems required under this permit, which has occurred since the date of the last monitoring report; and
2. the date, duration, and description of each occurrence of a failure of the monitoring system to provide reliable data.
3. the date, duration, and description of the upset or control equipment deficiency, including the cause thereof, and the remedial action taken.

### **F. PREMISES RECORDS [RCSA 22a-174-33(o)(2)]**

Unless otherwise required by this permit, the permittee shall maintain records of all required monitoring data and supporting information, and shall keep such records at the subject premises and make such records available for inspection and for copying by the Commissioner at the premises, for at least five years from the date such data and information were obtained. Such records shall be submitted to the Commissioner upon request. In addition to the other record keeping requirements specified herein, supporting information shall include:

1. the type of monitoring, which may include the record keeping, by which such monitoring data was obtained;
2. the date, place, and time of sampling or measurements;
3. the date(s) analyses of such samples or measurements were performed;
4. the name and address of the entity that performed the analyses;
5. the analytical techniques or methods used for such analyses and sampling;
6. the results of such analyses;
7. the operating conditions at the subject source at the time of such sampling or measurement; and
8. all calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by this Title V permit.

### **G. PROGRESS REPORTS [RCSA 22a-174-33(q)(1)]**

The permittee shall, on the schedule specified in this permit or every six months, whichever is more frequent, submit to the Commissioner and the Administrator progress reports in accordance with Section 22a-174-33(q)(1) and (3) of the RCSA which are certified in accordance with Subsection B of Section VII of this permit and which report the permittee's progress in achieving compliance under the compliance schedule in this permit. Such progress report shall contain those items identified in Section 22a-174-33(q)(1) of the RCSA.

### **H. COMPLIANCE CERTIFICATIONS [RCSA 22a-174-33(q)(2)]**

The permittee shall, on the schedule specified in this permit or every twelve months by January 31<sup>st</sup>, for the previous year, whichever is more frequent, certify to the Commissioner and Administrator, in writing, that the terms and conditions and applicable requirements of this permit have been complied with by the permittee. Certifications shall be in accordance with Subsection B of Section VII of this permit. In addition, a compliance certification shall contain those items identified in Section 22a-174-33(q)(2) of the RCSA.



## **Section VII: Title V Requirements**

### **I. VIOLATION NOTIFICATION [RCSA 22a-174-33(p)]**

Notwithstanding Subsection D of Section VII of this permit, pursuant to Section 22a-174-33(p)(1)(B) and (C) of the RCSA the permittee shall notify the Commissioner, within two (2) working days, in writing of any violation at the Title V source of an applicable requirement, including any term or condition of this permit, and shall identify the cause or likely cause of such violation and all corrective actions and preventive measures taken with respect thereto, and the dates of such corrective actions and preventive measures. Violations which pose an imminent and substantial danger to public health, safety, or the environment shall be reported no later than twenty-four (24) hours after the permittee learns, or in the exercise of reasonable care should have learned, of such violation in accordance with Subparagraph 22a-174-33(p)(1)(A) of the RCSA.

### **J. PERMIT DEVIATION REPORTING [RCSA 22a-174-33(j)(1)(O)]**

Notwithstanding Subsection D of Section VII of this permit, the permittee shall submit a written report to the Commissioner concerning any deviation from permit terms or conditions caused by upset or control equipment deficiencies, any deviation from a permit requirement, the cause of such deviation, and any corrective actions to address such deviation. Such report shall be made within ten (10) days of such deviation.

### **K. PERMIT EXPIRATION AND RENEWAL APPLICATION [RCSA 22a-174-33(j)(1)(B)]**

Upon expiration of this permit, the permittee shall not continue to operate the subject source emissions units unless a timely (as defined in 40 CFR subpart 70.5) and complete renewal application has been submitted pursuant to Sections 22a-174-33(g), -33(h), and -33(i) of the RCSA and 40 CFR subparts 70.5 and 70.7.

### **L. OPERATE IN COMPLIANCE [RCSA 22a-174-33(j)(1)(C)]**

The permittee shall operate the Title V source in compliance with the terms of all applicable administrative regulations, the terms of this permit, and any other applicable provisions of law. Any noncompliance with this permit constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action; permit termination, revocation, or modification; or denial of a permit renewal application.

### **M. COMPLIANCE WITH PERMIT [RCSA 22a-174-33(j)(1)(G)]**

This permit shall not be deemed to:

1. preclude the creation or use of emission reduction credits or the trading of such credits in accordance with subparagraphs 22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P) of the RCSA, provided that the Commissioner's prior written approval of the creation, use, or trading is obtained;
2. authorize emissions of an air pollutant so as to exceed levels prohibited under 40 CFR Part 72;
3. authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. impose limits on emissions from items or activities specified in subparagraphs (A) and (B) of subdivision 22a-174-33(g)(3) of the RCSA unless imposition of such limits is required by an applicable requirement.

### **N. INSPECTION TO DETERMINE COMPLIANCE [RCSA 22a-174-33(j)(1)(M)]**

The Administrator and/or the Commissioner, or a representative thereof may, for the purpose of determining compliance with the permit and other applicable requirements, enter the subject premises at all reasonable times without prior notice, to inspect any facilities, equipment, practices, or operations regulated or required under this permit; to sample or monitor substances or parameters; and to have access to review and copy relevant records lawfully required to be maintained at such source in accordance with this permit. It shall be grounds for permit revocation should entry inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

## **Section VII: Title V Requirements**

### **O. PERMIT AVAILABILITY**

The permittee shall have available at the facility at all times a copy of the Federal Operating Permit.

### **P. SEVERABILITY CLAUSE [RCSA 22a-174-33(j)(1)(R)]**

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit and the application of such provision to other circumstances shall not be affected.

### **Q. NEED TO HALT OR REDUCE ACTIVITY [RCSA 22a-174-33(j)(1)(T)]**

The permittee's need to halt or reduce operations at the Title V source shall not be a defense to noncompliance with this permit in an enforcement action concerning a violation of the permit.

### **R. PERMIT REQUIREMENTS [RCSA 22a-174-33(j)(1)(V)]**

The filing of an application by the permittee for a permit modification, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay compliance with any permit requirement.

### **S. PROPERTY RIGHTS [RCSA 22a-174-33(j)(1)(W)]**

This permit does not convey any property rights or any exclusive privileges. This permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including Section 4-181a(b) of the Connecticut General Statutes and Section 22a-3a-5(b) of the RCSA. This permit shall neither create nor affect any rights of persons who are not parties to this permit.

### **T. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA 22a-174-33(o)(3)]**

The permittee shall, contemporaneously with making a change authorized by this permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

### **U. OPERATIONAL FLEXIBILITY [RCSA 22a-174-33(r)(3)]**

The permittee may engage in any of the activities identified in Section 22a-174-33(r)(3)(A) of the RCSA in accordance with Section 22a-174-33(r)(3) and (6) of the RCSA, as long as such activity does not constitute a modification pursuant to Section 22a-174-33(r)(1) or (2) of the RCSA; constitute a modification under 40 CFR Part 60 or 61; or exceed emissions allowable under this permit.

At least seven (7) days before initiating an action specified in subparagraph RCSA 22a-174-33(r)(3)(A) of the RCSA, the permittee shall notify the Commissioner in writing of such intended action.

### **V. OFF-PERMIT CHANGES [RCSA 22a-174-33(r)(4)]**

Any time a permittee changes any practice at the Title V source which is not addressed or prohibited by the Title V permit, and the change is consistent with all applicable requirements, including the terms and conditions of the permit, the permittee shall submit a written notice of the intended change to the Administrator and the Commissioner. This only applies to a Title V source not triggering a Title I modification under the CAA, and not subject to any standard or other requirements pursuant to 40 CFR Parts 72 through 78, inclusive.

## **Section VII: Title V Requirements**

### **W. INFORMATION FOR NOTIFICATION [RCSA 22a-174-33(r)(5)]**

Written notification required under subdivisions 22a-174-33(r)(3) and (4) of the RCSA shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The permittee shall thereafter maintain a copy of such notice with the Title V permit. The Commissioner and the permittee shall each attach a copy of such notice to their copy of the permit.

### **X. TRANSFERS [RCSA 22a-174-33(s)(1) and (2)]**

No person other than the permittee shall act or refrain from acting under the authority of this permit unless this permit has been transferred to another person in accordance with subsection 22a-174-33(s) of the RCSA and Connecticut General Statute Section 22a-60.

The proposed transferor and transferee of a permit shall submit to the Commissioner a request for a permit transfer on a form provided by the Commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The Commissioner may also require the proposed transferee to submit with any such request, the information identified in Section 22a-174-33(s)(2) of the RCSA and CGS Section 22a-6m.

### **Y. REVOCATION AND REOPENING FOR CAUSE [RCSA 22a-174-33(t)]**

The Commissioner may revoke this permit on his own initiative or on the request of the permittee or any other person, in accordance with section 4-182c of the Connecticut General Statutes, subsection (d) of section 22a-3a-5 of the RCSA, and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The permittee requesting revocation of this permit shall state the requested date of revocation and provide the Commissioner with satisfactory evidence that the emissions authorized by this permit have been permanently eliminated.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this permit if the Administrator has determined that the Commissioner failed to act in a timely manner on a permit renewal application.

This permit may be modified, revoked, reopened, reissued, or suspended by the Commissioner, or the Administrator in accordance with RCSA 22a-174-33, Connecticut General Statutes Section 22a-174c, or subsection (d) of Section 22a-3a-5.

### **Z. CREDIBLE EVIDENCE**

Notwithstanding any other provision of this permit, for the purpose of determining compliance or establishing whether a permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.